

E₂ -- 2. (Amended) The nucleic acid fragment of claim 1, wherein said at least one mutation comprises a mutation in a region of said desaturase gene encoding a His-Glu-Cys-Gly-His (SEQ ID NO:60) amino acid motif.

E₃ 5. (Amended) The nucleic acid fragment of claim 4, wherein said at least one mutation comprises a mutation in a region of said desaturase gene encoding a His-Asp-Cys-Gly-His (SEQ ID NO:70) amino acid motif.

E₄ 17. (Amended) The plant of claim 16, wherein said motif comprises the sequence His-Glu-Cys-Gly-His (SEQ ID NO:60).

E₅ 39. (Amended) The plant of claim 37, wherein said motif comprises the sequence His-Glu-Cys-Gly-His (SEQ ID NO:60).

E₆ 42. (Amended) The method of claim 41, wherein said identifying step comprises identifying a mutation in a His-Glu-Cys-Gly-His (SEQ ID NO:60) amino acid motif.

E₇ 44. (Twice amended) The method of claim 28, wherein said identifying step comprises identifying a mutation in a His-Glu-Cys-Gly-His (SEQ ID NO:60) amino acid motif.

45. (Twice amended) The method of claim 28, wherein said producing step h) comprises producing seeds yielding an oil having an α -linolenic acid content from about 0.5% to about 10%.

E₈ 46. (Amended) The method of claim 30, wherein said identifying step b) comprises identifying a mutation in a His-Glu-Cys-Gly-His (SEQ ID NO:60) amino acid motif.

In the drawings:

Substitute the enclosed formal drawings for the drawings filed with the application.